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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/682,489	09/07/2001	Michael G. Lamming	D/A0849Q	4147

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100 CLINTON AVE., SOUTH, XEROX SQUARE, 20TH FLOOR
ROCHESTER, NY 14644

EXAMINER

OSMAN, RAMY M

ART UNIT	PAPER NUMBER
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2157

DATE MAILED: 07/08/2004

6

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/682,489

Applicant(s)

LAMMING ET AL.

Examiner

Ramy M Osman

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 4/19/2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3,5-8,10,11,13,14,19,22 and 25-35 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3,5-8,10,11,13,14,19,22 and 25-35 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____

DETAILED ACTION

Status of Claims

1. This communication is responsive to the amendment filed on April 19, 2004. Claims 1,2,5,6,8,19 and 22 were amended. Claims 4,9,12,15-18,20,21,23 and 24 were canceled. Claims 25-35 were newly added. Claims 1-3,5-8,10,11,13,14,19,22 and 25-35 are pending. The rejections cited are as stated below.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-3,5-8,10 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Carter et al. (U.S. Patent No. 6,201,611) in view of Narayanaswamy (U.S. Patent No. 6,611,358).

4. In reference to claim 1 Carter teaches an apparatus for processing an electronic document in accordance with a document service request, said apparatus comprising:

an output device for responding, to a request to establish a first wireless communication channel; the output device being adapted to respond to discovery requests and output a representation of electronic documents (column 1 lines 10-30, column 2 lines 10-40, column 3 lines 48-60 and column 6 lines 1-60);

a server for responding to a request to establish a second wireless communication channel; the server being adapted to render electronic documents into formats suitable for output devices (column 3 lines 48-60, column 4 lines 44-67 and column 5 lines 5-45).

a mobile computing device for bridging communications between (i) the output device over the first wireless communication channel and (ii) the document server over the second wireless communication channel (column 3 lines 48-60);

wherein the mobile computing device further comprises means for:

(a) executing a discovery request over the first wireless communication channel to identify one or more output devices available over the first wireless communication channel (column 1 lines 10-30, column 2 lines 10-40, column 3 lines 48-60 and column 6 lines 1-60);

(b) receiving from the output device in response to the discovery request a list of available services that specifies a desired or preferred format in which to receive the electronic document (column 4 line 38 – column 5 line 60);

(c) specifying the service request in response to user input that includes a first parameter identifying a location of the electronic document and a second parameter identifying a type of output device for performing the document service request (column 4 line 38 – column 5 line 60 and column 6 lines 5-55);

(d) sending the service request to the output device for rendering the electronic document, which is identified by the first parameter, into a format suitable for the output device, which is identified by the second parameter (column 4 line 38 – column 5 line 60);

(e) transmitting to the output device over the first wireless communication channel the rendered electronic document it receives from the document server over the second wireless communication channel (Summary and column 3 lines 48-60).

Carter fails to explicitly teach where the server is a document server. However, Narayanaswamy teaches on-demand transcoding of documents over a network by a document server transcoding a document and then transmitting the document to the mobile client for output (Summary, column 5 lines 10-60 and column 6 lines 20-55).

It would have been obvious for one of ordinary skill in the art to modify Carter by making the server a document server as per the teachings of Narayanaswamy so that the mobile client can access documents over a network which would save resource use on the mobile client.

5. In reference to claim 2, Carter teaches the apparatus of claim 1 above. Carter further teaches wherein:

the second parameter identifying the type of output device available over the first wireless communications channel identifies a printing class of service (column 3 lines 48-60 and column 5 lines 44-67); and

means forming part of the server upon receipt of the service request from the mobile computing device (Summary and column 3 lines 48-60):

loads a driver corresponding to the type of output device identified by the second parameter of the document service request (Summary, column 4 lines 50-67 and column 5);

renders the located document using the loaded driver (Summary, column 4 lines 50-67 and column 5);

stores the rendered document in a print file (column 7 lines 1-55); and

transmits the print file to the output device via the mobile computing device (column 6 lines 1-20 and column 7 lines 1-55).

Carter fails to explicitly teach where the server is a document server which locates an electronic document. However, Narayanaswamy teaches a mobile client requesting a document from a document server to be transcoded by the server and then transmitted to the mobile client for output (Summary, column 5 lines 10-60 and column 6 lines 20-55).

It would have been obvious for one of ordinary skill in the art to modify Carter by making the server a document server as per the teachings of Narayanaswamy so that the mobile client can access documents over a network which would save resource use on the mobile client.

6. In reference to claim 3, Carter teaches the apparatus of claim 1 above, wherein the document server and the output device have no preexisting communications channel there between (Summary, column 5 and figure 3).

7. In reference to claim 5, Carter teaches the apparatus of claim 2 above, wherein the document server applies one or more of a document enrichment, translation, conversion, summarization, recommender service to the document before preparing the document in the format suitable for the output device (Summary and column 4 lines 44-67).

8. In reference to claim 6, Carter fails to teach wherein the server is a document server communicating with a file server for retrieving the document. However, Narayanaswamy teaches a mobile client requesting a document from a document server which communicates with a file database to be transcoded by the server and then transmitted to the mobile client for output (Summary, column 5 lines 10-60 and column 6 lines 20-55).

It would have been obvious for one of ordinary skill in the art to modify Carter by making the server a document server as per the teachings of Narayanaswamy so that the mobile client can access documents over a network which would save resource use on the mobile client.

9. In reference to claim 7, Carter teaches the apparatus of claim 1, wherein the output device is one of a printer, a display, a file server, and a speaker (Summary and figures 1&3).

10. In reference to claim 8, Carter teaches wherein the format suitable for the output device is a device dependent format (Summary and column 4 line 38 – column 5 line 60).

11. In reference to claim 10, Carter teaches the apparatus of claim 1, wherein the document service request includes a third parameter identifying one or more document services to apply to the document (Summary, column 4 lines 44-67 and column 5 lines 40-67).

12. In reference to claim 11, Carter teaches the apparatus of claim 10 above, wherein the document server applies one or more of a document enrichment, translation, conversion, summarization, recommender service to the document before preparing the document in the format suitable for the output device (Summary and column 4 lines 44-67).

13. Claims 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Carter et al. (U.S. Patent No. 6,201,611) in view of Narayanaswamy (U.S. Patent No. 6,611,358) in further view of Parulski et al. (U.S. Patent No. 5,666,159).

Carter in view of Narayanaswamy teach claim 1 above. Carter fails to teach wherein the document server forms part of an input device and wherein the input device is an image-recording device. However Parulski teaches a camera module input device containing

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electronic image documents to be transmitted to a receiver which will then be output to a printer (Summary column 2 line 40 – column 3 line 65).

It would have been obvious to one having ordinary skill in the art to modify Carter in view of Narayanaswamy by making the server an image recording input device as per the teachings of Parulski so that image data in a camera system can be transmitted from a camera module to a receiving unit for subsequent output operations.

14. Claims 19 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Carter et al. (U.S. Patent No. 6,201,611) in view of Narayanaswamy (U.S. Patent No. 6,611,358) in further view of Wolff (U.S. Patent No. 6,738,841).

Carter in view of Narayanaswamy teach claim 1 above. Carter fails to teach wherein the document server and the output device have an insecure preexisting communications channel there between and wherein the first parameter is specified using a URL. However, Wolff teaches a server and a printer device having an insecure connection over the Internet and specifying a document with a URL (Abstract, column 1 line 50 – column 2 line 45, column 5 lines 20-67, column 7 and figure 2).

It would have been obvious to one having ordinary skill in the art to modify Carter in view of Narayanaswamy by making the server connected insecurely to a printer over the Internet and document retrieval via URL as per the teachings of Wolff so that printer devices can be used in conjunction with interconnected networks such as the World Wide Web.

15. Claims 25-35 do not define any new limitations above the teachings of claims 1-22 and are therefore rejected for the above mentioned reasons.

Response to Amendment

16. The examiner acknowledges the amended claims 1,2,5,6,8,19 and 22 filed on 4/19/2004.
17. Applicant cancelled claims 4,9,12,15-18,20,21,23 and 24.

Response to Arguments

18. Applicant's arguments with respect to claims 1-3,5-8,10,11,13,14,19,22 and 25-35 have been considered.

19. Applicant's amendments and remarks regarding the claims are sufficient to overcome the prior-art references. A response to the remarks will not be given because they are moot in view of the new ground(s) of rejection.

Applicants request for allowance is respectfully denied based on the newly cited art above.

Conclusion

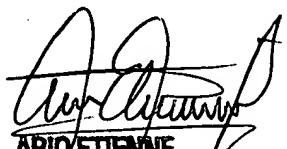
20. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ramy M Osman whose telephone number is (703) 305-8050. The examiner can normally be reached on Monday through Friday 9AM to 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (703) 305-7562. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

RMO
June 23, 2004


ARIO ETIENNE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100